PM 1:1

Type
Dental straight handpiece, with internal spray, without light.

Technical data and assembly

Type of coupling
The most commonly used coupling in the world as per ISO Standard 3964 with internal spray, without light.

Coupling
The PM 1:1 can be coupled to a micromotor of ISO Standard 3964 type.

Classification
Class IIa, "active medical devices", as per section III "Classification", Rule 9 of Annex IX to Directive 93/42 EEC, namely: "Therapeutic devices intended to administer or exchange energy".

Transmission ratio
blue instrument sleeve direct ratio

Bur
Diameter of shaft 2.35 mm, min. length 30 mm (1.18 in) **fig. 6** and max. length 44.5 mm (1.75 in) **fig. 7** Type 2 in accordance with ISO 6360-1 .

Changing the bur
Turn the ring completely in the direction of arrow, Insert the tool until the stop:
A: unlocking **fig. 1** **B**: locking **fig. 2**
Exert traction on the tool to check that it is correctly in place. Always wear gloves or other adequate protection when checking and using the device.

Important
The device must not be started without a tool inserted into the chuck.Never mount an instrument on a rotating motor.

Never activate the clamping/ unclamping ring while the instrument is rotating, as there is a risk of damaging its mechanism or destroying the motor.

Maintenance

Maintenance animations at www.bienair.com

Clean, lubricate and sterilise the device before the treatment of each patient.

Only use maintenance products and/or components from Bien-Air. The use of other products and components can lead to annulment of the guarantee.

Important
After cleaning and disinfecting/sterilizing the instrument and before using it, operate at moderate speed, with a bur in the chuck, for 10 to 15 seconds to distribute, and remove, the excess lubricant.
Overhaul
Never disassemble the device. For all modifications and repairs, we recom-mend that you contact your regular supplier or Bien-Air direct. Bien-Air asks the user to have its dynamic instruments checked or inspected at least once a year thereafter.

Cleaning and disinfection
Use cleaner Spraynet, Bien-Air **fig. 3**
Spray the inside and outside of the equipment to remove the residues. Disinfect with a clean damp cloth.
Products containing acetone, chlorine and bleach are not recommended as disinfectants.

Never immerse in disinfectant solutions.
Not suitable for ultrasonic bath.

Lubrication
Lubrication before each sterilisation, and at least twice a day.
Only use the spray Lubrifluid.
- Remove tool from instrument gripper before lubrication
- Place the instrument in a cloth so as to catch the debris and foreign matter expelled by the atomizer jet.
- Remove the protective cap and insert the nozzle into the back of the instrument sleeve.
- Spray for about 1 second **fig. 4**.

Before sterilisation
Remove residue, carefully clean the device and lubricate.

Sterilisation
Process: Steam autoclave up to 136°C ±2°C (277°F ± 3,6°F).
The required time for sterilisation of our products must comply with the prevailing local regulations for this type of instrument.

The device is supplied in "non-sterile" form. Before use, please follow the instructions under this heading.

Cleaning of spray tubes fig. 5 Wire cleaner

Environment
Temperature between -40°C (-8°F) and 70°C (158°F), relative humidity between 10% and 100%, atmospheric pressure 50 kPa to 106 kPa (7,3 to 15,3 psi).

Application
Product intended for professional use only.

Information
The technical specifications, illustrations and dimensions contained in these instructions are given only as a guide. They may not be the subject of any claim. The manufacturer reserves the right to make technical improvements to its equipment, without amending these instructions. The French original of this text conforms to the legal standards. For all additional information, please contact Bien-Air at the address indicated on the reverse.

Generalities

The device must be used by a competent person in accordance with the current legal provisions concerning industrial safety, health and accident prevention regulations, and these working instructions. In accordance with these requirements, the operator:
- must only use working devices that are in perfect working order; in the event of irregular functioning, excessive vibration, abnormal heating or other signs indicating malfunction of the device, the work must be stopped immediately; in this case, contact a repair centre that is approved by Bien-Air;
- must ensure that the device is used only for the purpose for which it is intended, must protect himself, his patients and third parties from any danger, and must avoid contamination through the use of the product.

The device is intended for medical treatment only; any use other than that for which this product is intended is not allowed and may prove to be dangerous. The medical device meets all the current European legal requirements.

Excess material from products used for maintenance (lubricants, cleaning products and disinfectants) originating from CA or PM may penetrate into the electric brush motor and interfere with its functioning. It is essential to follow the maintenance instructions accompanying each product. Never lubricate the electric brush motor.

Recommendations
It is essential to use dry, purified compressed air in order to ensure the long working life of the device. Maintain the quality of the air and the water by regular maintenance of the compressor and the filtration systems. The use of unfiltered hard water will lead to early blockage of the tubes, connectors and spray cones.

The device must not be used in the presence of open lesions, injury to the soft tissues or recent extractions. The exhaust air could propel infected material into the wounds and cause infections and risk of embolism.

Adhere to the Instructions for Use, in accordance with the instructions of the tool manufacturer. Never use a tool with an incorrect rod, as there is a risk of this becoming detached during the treatment and causing injury to you yourself, to your patient and to third parties.
Rest the device on a suitable support in order to eliminate the risk of injury to you yourself, to your patient and to third parties.

Check that the steriliser and the water that is used are clean. After each sterilisation cycle, remove the device from the sterilising apparatus immediately, in order to reduce the risk of corrosion.

Guarantee

Terms of guarantee
Bien-Air grants the operator a warranty covering all functional defects, material or production faults.
The device is covered by this warranty for 12 months from the date of invoicing.

In the event of justified claims, Bien-Air or its authorised representative will fulfil the company's obligations under this guarantee by repairing or replacing the product free of charge.

Any other claims, of whatever nature, in particular in the form of a claim for damages and interest, are excluded.
Bien-Air shall not be held responsible for damage or injury and the consequences thereof, resulting from:
- excessive wear and tear
- improper handling
- non-observance of the instructions for installation, operation andmaintenance
- unusual chemical, electrical or electrolytic influences
- poor connections, whether of the air water or electricity supply.

The guarantee does not cover flexible "fibre optic" type conductors, or any parts made of synthetic materials.

The guarantee shall become null and void if the damage and its consequences are due to improper manipulation of the product, or modifications to the product carried out by persons not authorised by Bien-Air.

Claims under the terms of the guarantee will be considered only on presentation, together with theproduct, of the invoice or the consignment note, on which the date of purchase, the product reference and the Serial No. should be clearly indicated.

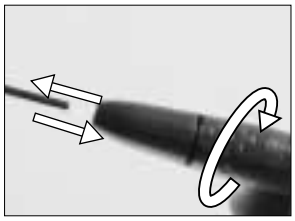


fig. 1

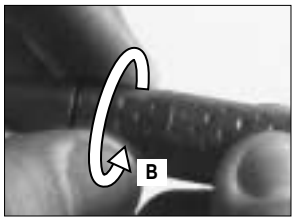


fig. 2

fig. 3

fig. 4

fig. 5

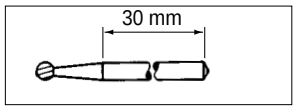


fig. 6

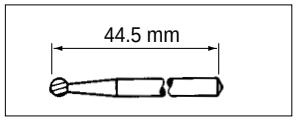


fig. 7

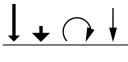
REF	Legend
1600383-001	Straight handpiece PM 1:1, direct ratio, without light, locking ring, bur Ø 2.35 mm
1000001-010	Wire probe, box of 10 wires
1600036-006	Spraynet, cleaning spray 500 ml, box of 6 cans
1600064-006	Lubrifluid, lubricant 500 ml, box of 6 cans

List of registered trade mark products ®:

Aquilon®	(Bien-Air)	Lubrifluid®	(Bien-Air)
Gyro Long-Life®	(Bien-Air)	Lubrimed®	(Bien-Air)
Isolite®	(Bien-Air)	Ondine®	(Bien-Air)
Isolux®	(Micro-Méga)		

In these instructions, "Device" corresponds to the product described in the heading "Type". For example, turbine, contra-angle, handpiece, motor, tube, electronics, connectors, station etc.

Symbols
Movement in the direction indicated



Movement fully to the stop, in the direction indicated

Accessories in option

REF 1000001-010

REF 1600036-006

REF 1600064-006

Set supplied

1000001

1600383-001 X

Bien-Air USA, Inc.
Dental
17880 Skypark Circle
Suite 140
Irvine, CA 92614 USA
Phone 1-800-433-BIEN
Phone 949-477-6050
Fax 949-477-6051
ba-usa@bienair.com

Bien-Air on Internet: www.bienair.com

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